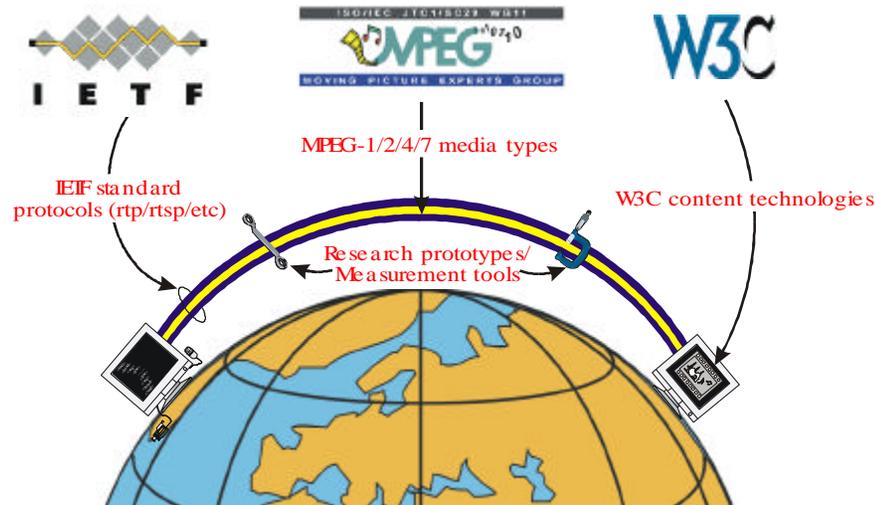


MPEG Testing and Evaluation



Objectives

To develop new techniques and tools to test and evaluate the next generation of object-based multimedia presentation technology

To expedite standardization, commercialization and development of new object-based content presentation technology

To deliver practical test and measurement technology to the multimedia research and product development industry

Collaborators / Customers

Standards Groups: MPEG, SMPTE

NIST Collaborators: ATP

Other Collaborators: Academic and industry researchers (UMd, GWU, University of Oulou, Finland, and NOKIA), developers of reference implementations in France, Israel, and Italy.

Customers: Tektronix, French Telecom USA, NIH, UMd.

Planned Accomplishments

MPEG Standards:

- Establishing 2D/3D BIFS testing profiles
- Contributions to MPEG-4 conformance
- Software tool to study the effects of splicing

Metrics to evaluate image quality

- Extend the present modeling techniques; test existing and new techniques against a larger corpus of images.

Image and video Indexing:

- Investigate new indexing techniques, develop software to implement them, test such techniques against the state of the art.